

## CLIMATOLOGICAL DATA FOR APRIL, 1913.

## DISTRICT NO. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Forecaster.

Notwithstanding the temperature and precipitation were nearly normal, the season is backward and vegetation made slow progress. The opening and closing days were unusually cool, while the second and third weeks were warm. These changes from cool to warm and back to cool again, which in many localities were pronounced, operated to check growth. The soil in the western sections is well moistened, while in the dry farming localities complaints are made of its being drier than usual at this season of the year. The cause of this dryness is attributed to increased evaporation due to high winds rather than to deficient precipitation. There were several heavy frosts during the third decade, which injured berry and truck crops and did some damage to tree fruits where no protective measures were taken. As most of the frosty mornings were followed by cloudy forenoons and the frozen buds thawed slowly, the damage as a rule was less than expected. Grain and stock are in satisfactory condition.

Snow in the mountains and foothills melted slowly, and by the end of the month it had nearly all disappeared from the foothills, but it was still deep in the mountains. All streams rose steadily, and while moderate flood stages prevailed in the smaller tributaries no damaging floods occurred.

The month as a whole was not favorable for farming operations, but construction work and railway transportation suffered few delays on account of adverse weather conditions.

## TEMPERATURE.

The cold weather of the previous month continued during the greater part of the first decade of April. There was also much cold and frosty weather during the last decade, which caused some damage to fruit in Idaho and to berries and truck crops in western Oregon. Mild temperatures prevailed generally from the 9th to the 22d, which in a measure compensated for the cold days and brought the mean temperature for the district nearly to normal. During this warm period maximum temperatures of  $80^{\circ}$  or more were recorded at several stations in Montana, Idaho, Washington, and Oregon.

The mean temperature, as determined from the records of 276 stations, was  $47^{\circ}$ , or  $0.1^{\circ}$  below normal. The highest temperature,  $90^{\circ}$ , was recorded on the 11th, at Umatilla, in northeastern Oregon, and the lowest,  $4^{\circ}$ , occurred on the 7th, at Alta, at an elevation of 6,500 feet, and at Snake River, in the Yellowstone National Park, at an elevation of 7,000 feet, both stations in the State of Wyoming. The greatest daily range in temperature was  $58^{\circ}$ , at American Falls, Idaho, at an elevation of about 4,350 feet. The highest monthly mean,  $55.8^{\circ}$ , was also recorded at Umatilla, Oreg., and the lowest,  $34.4^{\circ}$ , at Moran, Wyo., at an elevation of 6,770 feet.

## PRECIPITATION.

The precipitation was normal, or slightly in excess of the April average, in Montana, central Idaho, east-

central Washington, and over the greater part of Oregon, while in northern and southern Idaho, extreme eastern and western Washington, and extreme eastern and northwestern Oregon it was less than normal, the deficiency being quite pronounced in northwestern Oregon and in the Sound and coast sections of Washington.

The average precipitation for the district, as computed from the reports from 353 stations, was 1.76 inches, or 0.24 inch below normal. The greatest daily rainfall, 3.30 inches, occurred at Snake River, Wyo., on the 19th. The greatest monthly amount, 10.47 inches, was recorded at Harbor, a coast station 78 feet above sea level in southwestern Oregon. No precipitation was reported from Bonners Ferry, in northern Idaho, at 1,850 feet elevation. There was practically no precipitation of consequence from the 7th to the 14th in Montana, Wyoming, and Idaho; on the 1st and 2d and 9th to 11th in Washington; and the 9th to 11th, 16th and 17th, and 23d to 25th in Oregon.

The snowfall was confined to limited areas in high altitudes of the district, the greatest monthly amount, 40 inches, occurring at Musick, in Douglas County, Oreg., at an elevation of 5,000 feet. During the mild period the snow melted rapidly, but this was checked by the low temperatures, and there is still an abundance of snow in the gulches and on the north slopes of the higher mountains.

## THE RIVERS.

The crest of the March rise in the Willamette passed Albany and Salem on April 1 and Portland on the 3d, reaching a stage of 13.7 feet at the latter place. The lowest stages in the Willamette were reached at the close of the month. In the upper Columbia a fairly steady rise continued throughout the month. Minimum stages occurred generally during the first decade and maximum stages from the 24th to 30th. There was a marked rise in the Snake about the 20th, which was reflected to some extent below the confluence of the Snake and Columbia. Water in the Snake River was at its lowest during the first week in the month. All the rivers averaged above normal for April, the largest departures occurring in the Willamette.

## MISCELLANEOUS PHENOMENA.

Frosts were numerous during April, and the heaviest ones occurred generally on the 2d, 7th, 9th, 22d, and 29th. The last one was felt the most because vegetation was farther advanced by the 29th and more subject to injury. There was very little fog. The wind movement was large, and the month may be classed as quite windy, yet there were no very high winds. Winds exceeding 30 miles per hour were reported as follows: Walla Walla, 38 miles from the southwest on the 21st; Spokane, 36 miles from the southwest, and Tatoosh Island, 62 miles from the south, also on the 21st; Seattle, 41 miles from the west on the 5th; and North Head, 64 miles from the southeast on the 4th.

TABLE 1.—Climatological data for April, 1913. District No. 12, Columbia Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, melted.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Montana.</i>																				
Anaconda.	Deer Lodge.	5,300	11	40.2	-0.6	72	14	15	27	38	1.25	+ 0.50	9.5	6	11	14	5	C. D. Demond.		
Butte.	Silver Bow.	5,716	18	41.4	+ 0.8	71	13†	16	3	33	1.41	+ 0.27	12.0	5	11	9	10	J. R. Wharton.		
Columbia Falls.	Flathead.	3,100	17	43.8	+ 0.9	76	12	19	23	41	1.30	+ 0.25	0.3	6	14	7	9	J. M. Grist.		
Coeur.	Ravalli.	3,700	4	46.0	-	86	14	22	2	43	1.03	-	5.0	8	14	4	12	Hiram Flatt.		
Dayton.	Flathead.	8	42.4	-1.3	66	12	25	7	44	0.80	+ 0.11	0.30	0	4	20	2	8	J. A. Ruehle.		
Deer Lodge.	Deer Lodge.	4,529	1								1.03	-	6.5	4	17	11	2	H. B. Grant.		
East Anaconda.	do.	5,500	7	40.2	-	71	14	15	7	32	1.03	-	9.2	6	11	14	5	C. D. Demond.		
Fortine.	Lincoln.	2,975	7	41.4	-	74	13†	15	3†	50	0.46	-	0	5	11	1	18	Mike Petry.		
Hamilton.	Ravalli.	3,575	10	46.9	-0.1	79	14	24	7	44	1.09	+ 0.19	2.4	7	12	2	16	Hamilton Chamber of Com.		
Hat Creek.	Powell.	6,000	3								1.53	-	11.2	10	11	14	5	M. K. Landreth.		
Haugan.	Missoula.	3,150	1	38.5	-	71	18	11	3	48	1.03	-	0.6	8	16	8	sw.	U. S. Forest Service.		
Heron.	Sanders.	2,261	1	44.8	-	74	12†	20	3	44	1.14	-	0	6	16	2	12	E. Knott.		
Kalispell.	Flathead.	2,965	14	42.9	+ 0.4	75	12	24	23	43	0.86	- 0.20	0.30	1.0	8	11	8	w.	U. S. Weather Bureau.	
Libby.	Lincoln.	2,055	3	44.1	-2.3	80	13	16	3	54	0.21	- 0.96	0.20	0	2	13	4	13	S. B. Muchmore.	
Missoula.	Missoula.	3,225	33	45.1	+ 0.2	80	12	22	7†	47	1.46	+ 0.49	0.60	15	12	0	18	F. G. Bramble.		
Ovando.	Powell.	4,207	13	39.2	+ 0.2	70	14	16	3†	43	1.51	+ 0.47	0.30	11.2	14	6	28	James M. Self.		
Philipsburg.	Granite.	5,275	9	43.0	+ 1.0	78	12	15	3	50	1.90	+ 0.73	0.50	7.9	6	18	4	8	A. D. Stilman.	
Plains.	Sanders.	2,475	14	46.2	+ 1.2	89	12	22	3†	53	0.43	- 0.04	0.10	0.2	6	9	15	6	sw.	F. P. Brown.
Pleasant Valley.	Flathead.	3,500	5	39.2	-	73	12	11	7†	47	1.55	-	0.50	T.	5	13	0	17	E. K. Tarbox.	
Polson.	do.	2,920	5	45.6	-	69	14	28	4†	38	0.40	-	0.20	0	2				University Orchard Co.	
St. Ignatius.	Missoula.	2,700	7	45.6	-	80	12†	22	8†	50	1.06	-	0.29	3.0	7	10	15	5	U. S. Forest Service.	
Saltse.	do.	3,000	8								0.93	-	0.28	0	7	11	0	19	James Hylent.	
Stevensville.	Ravalli.	1	43.8	-	77	12	23	3	45	1.33	-	0.60	5.5	9	14	6	10	G. E. Luce.		
Thompson Falls.	Sanders.	2,462	1	45.2	-	81	12	18	2	48	0.73	-	0.24	T.	6	14	2	12	W. H. Heideman.	
Trout Creek.	do.	2,375	1	46.4	-	82	19	18	2	49	1.29	-	0.32	T.	6	12	0	18	Patrick Moriarty.	
Willow Glen Stock Farm.	Deer Lodge.	5,064	2	42.1	-	75	14	12	3	42	0.48	-	0.48	6.0	1	15	1	14	S. C. Orr.	
<i>Wyoming.</i>																				
Afton.	Lincoln.	6,200	9	41.0	-	68	14	15	10†	43	0.55	-	0.23	2.0	4	12	7	11	A. V. Call.	
Alta.	do.	6,500	3	37.8	-	64	14†	4	7	49	1.55	-	0.53	10.7	7	10	8	12	Mrs. Lucy Brown.	
Bechler River.	Yellowstone Park.	6,500	1								2.04	-	0.55	16.4	6	11	15	4	U. S. Army.	
Bedford.	Lincoln.	5,900	13	38.0	+ 1.2	69	29†	8	10	43	1.21	+ 0.16	0.56	5.7	5	20	4	6	C. G. Heiner.	
Moran.	do.	6,770	1	34.4	-	59	27	7	10	45	0.41	-	0.21	4.2	6	6	14	10	U. S. Reclamation Service.	
Snake River.	Yellowstone Park.	7,000	7	34.2	-	62	14	4	23	51	5.19	-	3.30	7.0	7	17	9	4	U. S. Army.	
<i>Nevada.</i>																				
San Jacinto.	Elko.	8	41.8	-	75	26	13	7	52	1.25	-	1.00	0.1	2	13	9	8	n.	F. W. Marchant.	
<i>Utah.</i>																				
Standrod.	Boxelder.	7	45.0	-	71	26	18	23	28	0.86	-	0.52	4.8	5	22	5	3		T. B. Jones.	
<i>Idaho.</i>																				
Albion.	Cassia.	4,650	10	46.7	+ 1.5	73	26	11	22	53	0.62	- 0.66	0.40	0	3	12	16	2	w.	C. E. Bocock.
Almo.	do.	3									0.58	-	0.38	0	2	12	1	17	Wm. D. Caftoon.	
American Falls.	Power.	4,341	21	47.6	+ 2.4	78	14	16	7†	58	0.30	- 1.01	0.12	T.	3	22	8	0	Geo. Stoll.	
Arrowrock.	Boise.	3,100	1	51.5	-	84	15	25	3†	48	0.45	-	0.33	T.	5	19	8	3	U. S. Reclamation Service.	
Blackfoot.	Bingham.	4,503	17	45.0	-0.1	76	14	21	23	46	0.49	-	0.37	0.5	3	14	15	1	E. A. Dowd.	
Blackfoot Dam.	Bannock.	6,200	3	38.8	-	70	27	12	10	43	0.91	-	0.35	0.42	T.	5	13	4	13	S. C. Waddell.
Bogus Creek.	Boise.	4,200	4								1.46	-	0.42	T.	7	13	17	0	F. P. Ingraham.	
Boise.	Ada.	2,739	27	50.6	+ 0.5	79	13	28	23	33	0.95	- 0.23	0.36	T.	7	6	8	16	U. S. Weather Bureau.	
Bonners Ferry.	Bonner.	1,850	6	42.8	-	74	11	20	1†	44	0.00	-	0.00	0	0	21	2	7	W. H. Heideman.	
Boulder Mine.	Boise.	4,800	3								1.29	-	0.43	0	8	16	5	9	Patrick Moriarty.	
Buhl.	Twin Falls.	3,800	6	49.7	-	79	12†	24	7†	44	0.62	-	0.30	0	7	15	9	6	S. C. Orr.	
Caldwell.	Canyon.	2,372	8	50.8	-	86	26	22	7	42	0.74	-	0.27	1.0	6	7	16	7	w.	Wm. J. Boone, D. D. Caldwell.
Caldwell Exp. Sta.	do.	1	48.6	-	81	12†	21	21	3†	45	0.65	-	0.30	0	5	6	8	15	C. B. Hampson.	
Cambridge.	Washington.	2,651	17	46.2	-3.0	78	11†	24	23	48	1.77	+ 0.52	0.58	0	6	13	9	8	C. H. Shepherd.	
Cedar Creek Dam.	Twin Falls.	5,220	2								1.54	-	0.52	2.0	8	13	15	2	nw.	Robert Hoffmann.
Chesterfield.	Bannock.	5,424	16	42.4d	+ 1.2	72d	14	19d	10†	47d	0.15	- 0.75	0.15	T.	1				Chas. S. West.	
Clarks Fork.	Bonner.	2,084	1	45.7	-	74	12†	22	2	41	1.38	-	0.41	T.	10	13	16	1	se.	Wm. Potter.
Clyde.	Custer.	6,000																	R. L. Sutcliffe.	
Council.	Custer.	3,059	1	46.8	-	75	11†	21	3	38	1.80	-	0.45	T.	8	11	12	7		F. L. Featherston.
Culdesac.	do.	1,520	4	48.8	-	84	11	27	2†	49	1.80	-	0.64	0.70	T.	9	12	13	5	Mrs. B. B. Caldwell.
Deary.	Latah.	2,854	1	44.1	-	76	11	20	2†	39	1.66	-	0.70	1.0	8	10	9	11	W. J. Davis.	
Dent.	Clearwater.	1,350	7	47.8	-	87	11	27	9	53	2.05	-	0.59	0	10	10	9	11	Emil Schuessler.	
Driggs.	Fremont.	6,097	6	38.0	-	67	27	8	7	47	0.75	-	0.60	0.5	3	11	5	14	W. H. Durrant.	
Emmett.	Canyon.	2,350	6	52.0	-	82	13†	25	23	40	0.45	-	0.22	0	6	8	15	7	nw.	U. S. Forest Service.
Forney.	Lemhi.	6,000	13	52.6	-1.5	87	26	27	3†	42	0.45	-	0.31	0.30	0	2	21	6	3	M. B. Merritt.
Garnet.	Elmore.	2,575	13	52.6	-	85	12†	22	7	52	0.60	-	0.38	T.	3	23	2	5	A. A. Kenison.	
Glenns Ferry.	do.	2,569	4	52.3	-	85	12†	21	7	52	0.60	-	0.17	T.	6				I. E. Perkins.	
Gooding.	Gooding.	3,572	3	49.2a	-	80a	26	21a	7†	48a	0.47	-	0.61	1.0	0				John Kralj, jr.	
Grand Forks.	Shoshone.	3,000	3	38.9	-	67*	12†	22	2†	42*	0.54	-	0.41	0	3	22	4	4	J. E. Keach.	
Grimes Pass.	Boise.	2,300	3			87	14	-			1.06	-	0.36	T.	9				H. E. Hanna.	
Gufsey.	Owyhee.	2,381	4	53.6	-	85	12†	26	7	41	0.45	-	0.14	0	5	25	5	0	Fred Perry.	
Hailey.	do.	5,347	10	42.8	+ 0.2	70	26	18	3	35	1.11	+ 0.07	0.72	5.0	3					

TABLE 1.—*Climatological data for April, 1918. District No. 12—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Observers.
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.			
<i>Idaho—Continued.</i>																				
New Meadows.....	Adams.....	3,950	8	39.0	66	12†	11	3	41	2.00	0.51	6.0	11	11	14	5	s.	Lee Highley.		
Nerperce.....	Lewis.....	3,082	3	44.4	76	11†	26	6†	43	2.41	0.44	0	10	13	10	7	p.	P. Mitchell.		
Oakley.....	Cassia.....	4,700	19	49.0	+ 2.1	82	27	22	29	44	0.15	- 0.73	0.10	2	8	19	3	s.	John Adams.	
O'Hara Bar.....	Idaho.....	1,557	2							3.40									J. D. Agnew.	
Orofino.....	Clearwater.....	1,027	8	48.7		86	11	26	7	55									Geo. Alteneder.	
Payette.....	Canyon.....	2,159	21	50.5	- 1.0	81	12	23	7	46	0.57	- 0.23	0.16	T.	6	10	9	n.	E. F. Allen.	
Pierson.....	Custer.....	7,000	4	33.5b		59	15†	0	6	46c			0.87		4	8	12	10	s.	D. P. Clarke.
Pine.....	Elmore.....	4,100	3										0.34	0	4	18	4	nw.	Mrs. Jennie Potter.	
Pleasant Valley.....	Ada.....	3,000	5	47.7		80	26	19	30	42	0.68		0.24	T.	8	10	11	9	C. E. Friedrich.	
Pocatello.....	Bannock.....	4,483	13	47.3	+ 0.5	74	14	21	23	38	0.78	- 1.24	0.39	0.2	8	11	9	se.	U. S. Weather Bureau.	
Pocatello Nursery.....	do.....	5,396	6																Mrs. Fannie E. Say.	
Poplar.....	Bonneville.....	5,500	3	44.3		72	14†	16	23	38	0.67		0.46	T.	4	16	9	5	C. M. Lawrence.	
Porchill.....	Bonner.....	1,665	23	44.6	- 0.8	75	12	21	3	42	0.49	- 0.51	0.28	0	4	16	4	10	H. A. French.	
Powers' Ranch.....	Boise.....	4,300	3								1.12		0.61	T.	6	22	0	8	Mrs. Mary French.	
Priest River Experiment Station:																				
No. 1.....	Bonner.....	2,500	1	42.3		68	12†	20	2	39	1.26		0.33	0	10	12	9	9	se.	D. R. Brewster.
No. 2.....	do.....	2,500	1	44.4		76	11†	20	2	46	1.16		0.33	0	10	12	9	9	se.	Do.
No. 3.....	do.....	1	41.8		74	18	14	2	52	1.33		0.35	0	12	12	9	9	se.	Do.	
Pyle Creek.....	Boise.....	3,100	3								0.93		0.33	0	9	14	8	8	s.	P. V. Smith.
Rattlesnake Creek.....	Elmore.....	4,000	3								0.94		0.40	0	9	14	7	9	s.	R. M. Green.
Richfield.....	Lincoln.....	4,306	3	46.6		75	12†	21	23	41	0.67		0.43	T.	4	14	15	1	sw.	Idaho Irrigation Co.
Roseberry.....	Boise.....	4,872	3								0.81		0.18	T.	7	1	23	6	nw.	Rev. T. P. Graham.
Rupert.....	Twin Falls.....	4,650	2			76	12†	19	23	46	0.28		0.10	0	5	21	1	8	sw.	D. B. Hartwell.
St. Anthony.....	Minidoka.....	4,204	6	47.0															Will Parry.	
St. Maries.....	Kootenai.....	2,283	15																Heber C. Sharp.	
St. Michael's Priory.....	Idaho.....	3,811	42.6		68	25	24	2†	28	1.87		0.38	6.0	13	9	8	13	nw.	J. S. Turnbull.	
Salmon.....	Lemhi.....	4,040	7	47.4		81	12	19	8†	57	0.25		0.09	T.	5	14	8	8	sw.	Rev. Father Berthold.
Sandpoint.....	Bonner.....	2,086	2	45.4		75	18	23	3	42	1.01		0.43	T.	6	12	6	12	s.	E. K. Abbott.
Sheep Hill.....	Boise.....	5,000	3								0.66		0.32	T.	9	2	21	3	nw.	S. M. Moore.
Shoshone.....	Lincoln.....	3,968	5	47.7		78	12†	22	7	41	0.50		0.30	T.	4	9	19	2	w.	C. M. Gardner.
Silver City.....	Owyhee.....	6,280	5								2.02		0.80	2.5	9	6	16	8	n.	zell Truman.
Smith Prairie.....	Elmore.....	5,300	3																Russel Stoddard.	
Soldier Creek.....	Blaine.....	5,755	2	39.4		64	26	19	6†	32	1.53		1.12	3.2	5	15	10	5	nw.	Wm. W. Newell.
Spirit Lake.....	Kootenai.....	2,660	2																J. E. Minear.	
Springfield.....	Bingham.....	4,420	4	44.8		78	14	17	23	55	0.12		0.09	T.	2	13	12	5	sw.	Mrs. W. A. Edwards.
Spring Hill.....	Ada.....	3,607	14	50.8		80	26	28	28	40	0.97		0.38	0	6	12	6	12	nw.	Ray G. Lyons.
Sugar.....	Fremont.....	4,892	5	44.7		75	14	23	23	46	0.81		0.56	1.0	0	5	19	3	nw.	Utah-Idaho Sugar Co.
Sunnyside.....	Elmore.....	3,500	3	53.0		78	14†	21	30	57	0.39		0.11	0	5	19	6	18	nw.	Col. M. W. Wood.
Tripod Mountain.....	Boise.....	4,300	3								0.62		0.34	T.	5	13	11	6	sw.	Mrs. Verna Paddock.
Twin Falls.....	Twin Falls.....	3,825	7	49.2		81	26	24	7†	50	0.53		0.20	0	7	8	20	1	sw.	J. A. Waters.
Vernon.....	Fremont.....	5,050	14	43.6	+ 2.4	74	27	18	23	40	1.64	+ 0.50	1.00	1.5	6	18	11	1	sw.	A. M. Slater.
Wallace.....	Shoshone.....	2,728	5	43.4		72	12	21	2	38	2.10		0.80		10				w.	U. S. Weather Bureau.
Weiser.....	Washington.....	2,114	1	53.2		83	13	23	23	45	0.61		0.27	0	5	5	11	14	se.	J. W. Lapish.
Wendell.....	Gooding.....	3,400	4	49.0			80	12†	22	7	46	0.49		0.22	0	5	18	9	w.	Chas. L. Dingler.
<i>Washington.</i>																				
Aberdeen.....	Chehalis.....	162	22	48.5	+ 0.5	77	17	29	1†	38	4.59	- 1.54	0.79	T.	17	9	9	12	nw.	H. A. Benham.
Anacortes.....	Skagit.....	60	19	48.2		65	16	31	2	29	1.30	- 0.80	0.20	0	9	12	18	0	sw.	Douglas Almond.
Anatone.....	Asotin.....	2,800	41.7			72	11	17	2†	42	2.43		0.93	8.0	8	13	12	5	sw.	W. A. Hamilton.
Baker.....	Skagit.....	390	7	49.0		80	17	27	1†	49	2.30		0.50	0	9	6	6	18	sw.	Robt. M. White.
Bellingham.....	Whatcom.....	60	18	49.4	+ 0.6	66	11	28	1	30	1.59	- 0.45	0.35	0	7	21	4	5	sw.	Sanford B. Maybew.
Bellingham (near).....	do.....	107	2																	U. S. Bureau of Plant Industry.
Blaine.....	do.....	57	16	48.8	+ 2.7	68	11	26	30	36	2.60	+ 0.12	0.85	0	11	0	19	11	nw.	I. M. Scott.
Blewett.....	Chelan.....	2,200	4								0.59		0.30	0	4					John Burmeister.
Bremerton.....	Kitsap.....	40	15								0.89	- 1.43	0.29	0	7					U. S. Navy Yard.
Brewster.....	Okanogan.....	1,620	3	49.5		75	11	29	22	33	0.63		0.43	T.	3	15	12	3	sw.	Mrs. H. F. Bertram.
Bumping Lake.....	Pierce.....	685	47.9			77	17	30	1	40	1.93		0.32	T.	11	5	15	10	sw.	Geo. C. Sears.
Cedar River.....	Yakima.....	3,400	2								1.94		0.38	0	9	9	3	18	sw.	U. S. Reclamation Service.
Centralia.....	King.....	535	6								1.94	- 1.39	0.35	0	13	7	16	7	s.	Geo. Landsburg.
Clearbrook.....	Lewis.....	212	20	49.4	+ 0.3	80	20	28	2	46	1.94	- 1.39	0.35	0	8	3	17	10	w.	I. S. Turner.
Cle Elum.....	Whatcom.....	140	10	49.2	+ 1.3	80	18	28	1†	39	2.14	- 0.23	0.75	0	6	19	9	2	nw.	Geo. Gibbs.
Kittitas.....	Clallam.....	1,930	14	43.8	- 0.4	73	11†	19	2	46	0.75	- 0.49	0.40	0.8	6	19	9	2	nw.	J. A. Balmer.
Colfax.....	Whitman.....	2,300	24	48.4	+ 1.0	80	18	23	3	43	1.50	- 0.14	0.61	T.	5	15	4	11	w.	I. B. Doolittle.
Colville.....	Stevens.....	1,635	13	47.3	+ 0.3	82	13	21	2	51	0.84	- 0.10	0.31	0	4	13	10	7	sw.	W. L. Sax.
Concoway Forest Station.....	Okanogan.....	2,300	13	47.0	+ 0.5	76	14†	22	1	40	0.97	+ 0.05	0.85	T.	2	14	4	12	sw.	U. S. Forest Service.
Coulee City.....	Grant.....	1,374	2	49.6		75	11†	29	7†	43	0.79		0.40	0	3	19	7	4	nw.	Wm. Baines.
Darrington.....	Yakima.....	567																	M. E. Jolly.	
Davenport.....	Columbia.....	2,450	4																U. S. Reclamation Service.	
Deer Park.....	Spokane.....	2,050	2	45.3d		76d	13	23d	2†	45d	1.13		0.57	T.	4	23	4	3	sw.	N. C. Rhoads.
Detroit.....	Mason.....	30	5	48.4		74	17	28	1	39	1.79		0.56	0	10	10	14	6	sw.	J. L. Thayer.
Dixie (near).....	Walla Walla.....	440	4								2.41		0.78	6.0	7	10	7	13	sw.	W. W. Hendron.
Dryden.....	Chelan.....	960	3								1.21		0.37	0	8					Robt. Allison, Jr.
Duckabush.....	Jefferson.....	380									0.99		0.64	1.0	3	22	6	2	nw.	W. O. Eckert.
East Sound.....	San Juan.....	500	16																	T. Z. Andrews.
Ellensburg.....	Kittitas.....	1,571	25	46.4	- 1.4	81	11	18	2	54	0.56	+ 0.03	0.38	0.5	3	20	7	3	nw.	Michael Pecovich.
Forks.....	Franklin.....	480									4.72		0.86	0	15					WenatcheeVal. Gas. & El.Co.
Fort Simcoe.....	Yakima.....	1,427	18	51.5	- 0.4	79	25	32	2†	34	0.08	- 0.34	0.06	0	2	20	0	10	w.	E. G. Newman.
Gerome.....	Stevens.....	1,200	1	46.2		80	11	24	29	46	1.20		1.12	0	2	13	14	3	nw.	Ber E. Harrison.
Goat Lake.....	Snohomish.....	2,900	4								4.15		1.33	24.0	12					R. Lee Barnes.
Gold Basin.....	do.....	1,360	2	41.0		67	20	24	4	37	1.88		0.42	2.0	9	22	1	7	ne.	Frank O. Young.
Gold Creek.....	Yakima.....	2,600	4																	

TABLE 1.—Climatological data for April, 1913. District No. 12.—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.			Departure from the normal.			Total.			Greatest in 24 hours.							
				Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Date.	Lowest.	Date.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.			
<i>Washington—Contd.</i>																				
Kent.	King.	53	49.1	75	17	27	1	43	1.05	0.45	0	8	4	11	15	s.	A. O. Jeffries.			
Kettle Falls.	Stevens.	1,265	48.4	78	11†	24	6	43	0.72	0.40	0	4	9	14	7	sw.	Harry H. Cole.			
Kiona.	Benton.	430	54.0	84	11	21	2	41	0.39	0.26	0	3	23	5	2	ne.	Dr. F. S. Hedger.			
Kosmos.	Lewis.	775	48.7	88	20	28	23	56	2.43	0.74	0	11	6	23	1	sw.	J. A. Ulsh.			
La Center.	Clarke.	250	46.0	— 2.8	74	17	27	7†	42	2.06	— 1.07	0.40	0	10	9	16	sw.	Joseph Brothers.		
La Crosse.	Whitman.	1,400	50.0	84	11	24	23	41	0.58	0.24	0	4	13	13	4	nw.	M. E. Schreck.			
Lake Cleulam.	Kittitas.	2,171	42.2*	69†	11	20 <sup>a</sup>	2	37	0.38	0.24	T.	2	2	10	18	w.	U. S. Reclamation Service.			
Lake Kachess.	do.	2,235	41.8	66	11	20	2	37	0.79	0.27	3	0	5	10	2	w.	Do.			
Lake Keechelus.	do.	2,479	5	—	—	—	—	—	1.83	0.40	3.0	10	12	7	11	w.	W. H. Van Meter.			
Lakeside.	Chelan.	1,116	22	51.1	+ 0.5	77	11†	31	2†	36	0.67	+ 0.03	T.	3	5	24	s.	Mrs. Minnie E. Strout.		
Laurel.	Klickitat.	1,900	4	—	—	—	—	—	—	1.89	—	1.08	0	7	11	16	s.	Mrs. J. S. Myers.		
Ferry.	do.	1,644	3	47.2	—	78	12†	21	2	49	0.84	—	0.28	T.	10	7	10	nw.	U. S. Engineer Corps.	
Lone Tree.	Chehalis.	9	48.6	—	70	17	36	1†	24	2.71	—	0.42	0	15	3	19	w.	National Park Ranger.		
Longmires Springs.	Pierce.	2,800	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	P. H. Leese.		
Lost Creek.	Okanogan.	3,125	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Lucien F. McConahe.		
McConahe.	Grant.	1,072	2	50.9	—	79	12†	23	7†	39	0.09	—	0.06	0	3	18	8	sw.	Mrs. Mary McCumber.	
McCumbers Ranch.	Yakima.	2,182	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	H. M. Flemming.		
Moses Lake.	Grant.	1,070	2	51.4	—	83	13	22	6	44	0.03	—	0.03	0	1	24	0	w.	G. H. Mottinger.	
Mottinger.	Benton.	307	13	55.7	— 0.4	88	10	34	6†	40	0.50	— 0.07	0.31	0	3	23	2	sw.	Wm. M. Dorr.	
Mount Pleasant.	Clallam.	500	2	43.8	—	64	18	29	2†	37	0.97	—	0.51	2.0	6	6	17	w.	H. B. Scudder.	
Moxee.	Yakima.	1,000	21	51.2	+ 0.8	83	11	16	2	54	0.51	+ 0.09	0.40	0	4	13	4	sw.	Chas. M. Talmadge.	
Newport.	Stevens.	2,400	3	44.2	—	76	12	19	1†	45	1.33	—	0.63	0.5	8	2	19	nw.	Steve Nagy.	
Nighthawk.	Okanogan.	3,050	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	U. S. Weather Bureau.		
North Head.	Pacific.	211	11	47.4	— 0.1	64	10	38	1	19	2.33	— 0.89	0.56	0	16	6	12	nw.	Ruth J. Shepard.	
North Sundale.	do.	—	—	51.7	—	81	11	30	6†	39	0.68	—	0.40	0	4	—	—	W. F. Case.		
Klickitat.	do.	—	—	48.3	+ 1.7	80	11	22	1	45	0.64	— 0.38	0.29	0	7	19	8	sw.	Albert Bender.	
North Yakima.	Yakima.	1,070	4	52.7	—	82	11	27	2	41	0.51	—	0.41	0	3	17	11	sw.	H. W. Rieke.	
Odessa.	Lincoln.	1,540	10	49.0	—	80	11†	23	23	37	0.50	—	0.36	T.	4	13	17	sw.	Cecil S. Willis.	
Ogla.	San Juan.	50	23	48.8	+ 1.0	65	18	32	1	22	1.95	— 0.02	0.62	0	8	11	13	w.	M. O'Connor.	
Olympia.	Thurston.	45	35	49.0	+ 0.2	78	17	29	1	45	2.12	— 1.48	0.41	0	15	7	12	sw.	St. John Umbrite.	
Omak.	Okanogan.	850	4	50.9	—	88	11	23	2	49	0.09	—	0.06	0	2	19	8	sw.	M. C. Jackman.	
Oroville.	do.	922	3	51.2	—	80	12	26	1	37	1.02	—	0.60	0	3	18	8	sw.	Samuel Gruell, sr.	
Peola.	Garfield.	5,000	4	—	—	—	—	—	—	—	—	—	—	1.86	5.59	12.0	12	w.	Peter McClung.	
Pomeroy.	do.	1,500	21	50.2b	+ 0.2	82†	11	27†	28	37†	0.09	— 1.14	0.04	0	3	10 <sup>b</sup>	15 <sup>b</sup>	sw.	U. S. Weather Bureau.	
Port Crescent.	Clallam.	259	18	43.8	— 0.9	63	18	27	30	28	0.98	— 1.54	0.30	0	14	2	17	s.	Frank Plummer.	
Port Townsend.	Jefferson.	80	23	48.8	+ 0.4	66	18	34	2	26	0.84	— 0.74	0.52	0	—	14	14	sw.	E. L. Capps.	
Prosser.	Benton.	661	53.4	—	—	84	11	24	2	46	—	—	0.52	0	—	14	2	sw.	State Agricultural College.	
Pullman.	Whitman.	2,550	21	45.4	— 1.7	74	11†	29	2†	31	1.50	0.00	0.45	0	7	15	12	sw.	C. A. Bullard.	
Quets River.	do.	16	2	47.4	—	71	17	31	1†	31	0.73	—	0.84	0	16	6	13	sw.	A. V. Higley.	
Quinault.	do.	300	6	47.2	—	86	17	30	28†	50	6.52	—	1.25	0	22	3	19	w.	Chas. Shoemaker.	
Rearden.	Lincoln.	—	—	45.5	—	75	13	25	29	30	—	—	—	0	6	13	11	sw.	Geo. B. Stocking.	
Republic.	Ferry.	2,628	13	44.6	— 0.1	75	12†	18	2	49	0.71	— 0.50	0.35	0	5	14	3	sw.	James W. Nicol.	
Rex Creek.	Chelan.	1,135	6	47.6	—	70†	14†	29†	1	32†	0.87	—	0.37	0	4	6	11	nw.	Agent, N. P. Ry.	
Ritzville.	Adams.	1,825	14	—	—	—	—	—	—	—	—	—	0.41	0	5	—	—	R. R. Couger.		
Robertsburg.	Klickitat.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	P. M. Ramsey.		
Rock Lake.	Whitman.	1,910	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hans Mummm.		
Rosalia.	do.	2,425	21	46.6	+ 0.4	75	11	25	23	36	1.01	— 0.29	0.30	0	8	13	10	w.	Mrs. Adella Russell.	
Russells Ranch.	Yakima.	2,870	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	U. S. Weather Bureau.		
Seattle.	King.	208	22	49.0	— 0.4	70	17	35	2	26	0.83	— 1.85	0.61	T.	6	4	15	11	s.	Mrs. H. L. Devin.
Sedro Woolley.	Skagit.	38	16	49.6	— 0.6	74	11	25	1	34	1.38	— 1.71	0.35	0	9	11	11	sw.	C. E. Comstock.	
Sixprong.	Klickitat.	1,240	6	52.0	—	78	10	31	7	36	0.73	—	0.46	0	3	17	2	sw.	Skagit Power Co.	
Skagit Power Dam.	Whatcom.	510	3	46.7	—	75	18	27	1	41	2.46	—	0.62	0	10	15	8	sw.	James Bylling.	
Snohomish.	Snohomish.	55	19	50.6	+ 1.3	81	10	26	2	41	0.73	— 2.55	0.39	0	2	25	0	s.	O. N. Wiswell.	
Snoqualmie Falls.	King.	667	14	49.6	+ 1.0	75	10†	29	1	42	1.41	— 2.67	0.35	0	12	19	0	nw.	R. E. Chadwick.	
Snoqualmie Pass.	do.	3,000	4	—	—	—	—	—	—	—	—	—	—	30.0	—	—	—	Geo. M. Snyder.		
Snyders Ranch.	Okanogan.	2,200	4	43.4	—	79	14	17	1	48	0.62	—	0.25	0	3	15	13	w.	Mrs. W. E. Buckingham.	
South Bend.	Pacific.	140	19	46.0	— 2.4	77	17	28	28	39	4.32	— 2.44	0.72	0	17	7	18	s.	U. S. Weather Bureau.	
Spokane.	Spokane.	1,943	32	48.2	+ 0.5	77	11	30	29	35	0.80	— 0.49	0.43	T.	6	4	9	17	s.	University of Washington.
State University.	King.	170	4	48.7	—	67	17	36	1†	23	0.65	—	0.38	0	7	11	7	sw.	Chas. Gunn.	
Stokes Ranch.	Okanogan.	2,670	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	H. E. Thompson.		
Summer.	Pierce.	77	5	49.3	—	73	17	27	1	42	1.42	—	0.40	0	11	9	10	sw.	U. S. Reclamation Service.	
Yakima.	Yakima.	740	18	52.5	+ 1.0	83	11	22	2	45	0.23	— 0.10	0.09	0	12	3	14	s.	D. W. Dorrance.	
Pierce.	do.	213	27	48.8	— 0.1	70	17	32	7	30	1.29	— 1.47	0.43	0	12	2	13	sw.	Mrs. Mandie Bernard.	
Tatoosh Island.	Clallam.	86	28	46.0	— 0.1	59	11	37	28	34	3.39	— 2.92	0.78	0	19	4	12	w.	J. C. Wheeler.	
Tieton.	Yakima.	2,313	4	47.4	—	74	25	26	7	36	0.86	—	0.74	0	18	4	18	s.	A. A. Quarnberg.	
Touchet.	Walla Walla.	566	6	52.9	—	88	11	24	23	43	0.42	—	0.17	0	5	19	5	sw.	Miss Gertrude McClintock.	
Touchet Ridge.	Columbia.	2,500	4	—	—	77	18†	29	7	34	0.20	—	0.12	0	2	26	2	nw.	F. C. Koppen.	
Trinidad.	Douglas.	900	9	53.3	—	77	25	31	23	36	2.51	+ 0.02	0.62	0	13	7	12	nw.	G. A. Wallace.	
Vancouver.	Clarke.	100	38	51.1	— 0.5	77	25	31	2	45	0.99									

TABLE 1.—Climatological data for April, 1913. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<b>Oregon—Continued.</b>																					
Clear Lake.....	Linn.	3,030	6	40.2	—	75	25	10	23	50	0.70	—	0.22	3.5	6	1	15	14	nw.	R. B. Grondahl.	
Cliff.....	Lake.	4,300	6	45.6	—	75	25	25	7	39	0.67	—	0.36	0	4	18	9	3	sw.	John C. Green.	
Condon.....	Gilliam.	2,884	6	45.6	—	75	25	25	7	39	0.67	—	0.32	T.	10	10	6	14	nw.	C. F. Kennedy.	
Covallis.....	Benton.	266	25	—	—	—	—	—	—	—	—	+ 0.57	0.35	5.5	11	14	10	6	sw.	Oregon Agricultural College.	
Crescent.....	Klamath.	4,400	1	39.2	—	73	24	11	29	49	1.49	—	0.32	T.	10	10	6	14	nw.	C. W. Long.	
Dayville.....	Grant.	2,200	19	49.4	- 0.9	81	11	23	7	45	1.46	+ 0.57	0.32	0	18	8	13	9	sw.	J. Campbell-Martin.	
Deadwood.....	Lane.	350	3	49.5	—	76	17	34	23	37	6.81	—	1.59	0	18	7	16	sw.	Jos. Simmonds.		
Doraville.....	Columbia.	600	11	46.4	- 1.6	73	17	26	28	33	3.23	—	0.09	0.63	T.	18	7	16	sw.	Ira Wimberly.	
Drain.....	Douglas.	300	11	50.0	- 0.2	79	24	30	22	44	3.41	+ 0.91	0.97	0	16	6	10	14	sw.	R. B. Stanfield.	
Echo.....	Umatilla.	625	9	52.3	—	88	11	26	2	43	0.78	—	0.59	0	3	14	7	9	w.	Carl F. Troedson.	
Ella.....	Morrow.	830	9	52.0	—	80	25	26	2	36	1.07	+ 0.58	0.85	0	3	15	9	6	sw.	Paul G. Bond.	
Eugene.....	Lane.	449	23	51.4	+ 1.2	76	21	30	5	43	2.30	—	0.38	0.52	0	16	10	6	14	s.	William Bettys.
Fairview.....	Coos.	142	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	Pacific University.	
Forest Grove.....	Washington.	220	24	48.5	- 0.9	75	23†	27	29	37	2.42	—	0.46	0.50	0	16	6	3	21	s.	Wm. S. Angus.
Gardiner.....	Douglas.	72	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	B. J. Simpson.	
Glendale.....	do.	144	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	Mrs. J. A. Reeker.	
Glenora.....	Tillamook.	575	22	47.0	- 0.5	75	17†	30	5†	43	5.99	—	3.40	2.30	0	13	8	4	18	s.	John W. Riley.
Gold Beach.....	Curry.	40	12	48.7	—	70	24	34	28	25	7.10	+ 0.33	1.80	0	14	14	14	2	s.	John B. Paddock.	
Grants Pass.....	Josephine.	956	25	50.1	- 1.0	82	24†	77	48	2.24	+ 0.57	0.58	T.	11	7	7	16	sw.	Agent, O.-W. R. & N. Co.		
Grass Valley.....	Sherman.	2,381	12	47.0	—	83	25	22	7	45	0.87	—	0.31	0	5	5	11	14	nw.	Miss Belle Ely.	
Gurdane.....	Umatilla.	3,500	4	44.7	—	72	8†	24	23	35	0.24	—	0.03	0	7	15	10	5	s.	Portland Water Works.	
Headworks.....	Clackamas.	719	11	48.6	+ 0.6	75	25	29	23	39	5.33	—	0.09	1.04	T.	16	9	7	14	sw.	Frank Gilliam.
Heppner.....	Morrow.	1,930	23	48.4	0.0	81	11	27	23	30	2.27	+ 1.17	1.32	0	8	4	25	1	w.	C. W. Kellogg.	
Hermiston.....	Umatilla.	451	6	53.3	—	89	26	25	2	47	0.43	—	0.40	0	0	2	17	5	8	w.	R. H. Parsons.
Hillcrest Orchard.....	Jackson.	1,595	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	A. C. Allen.	
Hollywood Orchard.....	do.	1,400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	Edward W. Birge.	
Hood River.....	Hood River.	300	23	48.4	- 1.1	75	20	30	1†	36	1.32	—	0.57	0	5	12	10	8	w.	W. H. Lawrence.	
No. 2.....	do.	485	1	51.6	—	75	20†	31	7	39	1.32	—	0.72	0	8	19	5	6	sw.	U. A. Newman.	
No. 3.....	do.	620	1	48.0	—	76	25	29	17†	43	1.15	—	0.49	0	6	7	21	2	nw.	P. L. Smith.	
No. 4.....	do.	850	1	47.7	—	77	25	28	7†	40	1.15	—	0.47	0	6	19	3	8	w.	J. G. Jarvis.	
No. 5.....	Baker.	2,165	12	52.4	+ 0.3	80	11	27	3	48	0.23	—	0.44	0.15	0	5	12	18	0	sw.	Agent, O.-W. R. & N. Co.
Huntington.....	Jacksonville.	1,640	25	49.3	- 1.7	81	25	29	6†	40	2.15	+ 0.86	0.40	T.	1	7	7	16	s.	E. Britt.	
Joseph.....	Wallowa.	4,400	24	42.4	+ 0.8	70	12†	19	2	36	2.71	+ 1.25	0.60	15.0	8	—	—	—	s.	F. F. McCully.	
Klamath Agency.....	Klamath.	4,169	5	42.2	—	68	25	24	7	35	0.60	—	0.40	2.0	2	21	6	3	s.	N. D. Ginsbach.	
Klamath Falls.....	do.	4,100	24	43.7	- 2.8	73	25	20	6	38	1.05	+ 0.15	0.40	1.5	7	13	10	se.	Augusta J. Hayden.		
LaGrande.....	Union.	2,784	25	48.0	+ 0.3	74	12	24	6†	38	1.42	+ 0.12	0.95	T.	5	17	11	2	nw.	W. A. Worstell.	
Lakeview.....	Lake.	4,825	30	41.0	- 3.0	74	25	18	6	38	0.69	—	0.45	0.20	3.7	11	8	11	s.	C. C. Gott.	
McKenzie Bridge.....	Lane.	1,400	12	48.4	- 0.6	80	20	21	23	49	3.64	—	0.41	0.57	—	19	3	20	sw.	George Frissell.	
McMinnville.....	Yamhill.	182	26	49.6	- 0.7	77	17	29	28	40	3.59	+ 0.51	0.70	0	17	9	2	19	sw.	M. E. Pettitt.	
Marshfield.....	Coos.	34	12	47.8	- 1.8	71	10	29	28	36	5.97	—	1.81	0	18	10	6	14	nw.	U. S. Weather Bureau.	
Meadow Brook Ranch.....	Hood River.	850	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	John W. Palmer.	
Medford.....	Jackson.	1,425	3	50.0	—	80	10†	28	6†	43	2.45	—	0.46	T.	15	11	12	7	nw.	U. S. Weather Bureau.	
Merrill.....	Klamath.	4,070	8	42.6	—	75	25	20	6	49	1.60	—	0.55	0	3	24	1	5	sw.	John A. Hoffman.	
Metolius.....	Crook.	2,525	3	47.8	—	77	10	22	7†	42	0.71	—	0.42	0	3	19	6	5	n.	G. Muecke.	
Miramont Farm.....	Clackamas.	195	25	50.1	- 0.5	79	17	30	28	41	1.45	+ 1.37	1.27	1.5	18	8	10	12	s.	Dr. Urban Fisher.	
Mount Angel.....	Marion.	485	27	50.6	- 0.5	76	17	33	7	33	4.32	+ 0.79	1.00	0	15	10	9	11	nw.	Isaac Beal.	
Mount Hood.....	Hood River.	1,450	2	45.3	—	73	20	24	25	43	1.44	—	0.44	0.50	10	9	19	2	sw.	Alex Lundberg.	
Musick.....	Douglas.	5,000	4	40.0	—	63	25	15	5	37	6.29	—	1.56	40.0	18	8	5	17	sw.	William Mathews.	
Newport.....	Lincoln.	69	25	46.8	- 2.2	64	9	34	28	24	4.46	—	0.90	1.17	0	18	7	13	10	nw.	W. H. Chipping.
Odell.....	Hood River.	1,000	1	47.8	—	74	26	31	7†	31	—	—	—	—	—	—	—	—	w.	L. D. Firebaugh.	
Ortley.....	Wasco.	1,600	2	46.7	—	72	11†	30	28	29	0.84	—	0.51	T.	5	8	20	2	w.	C. M. Sain.	
Paisley.....	Lake.	4,206	10	45.2	—	72	9†	22	6†	48	0.34	—	0.17	3.0	3	19	6	5	nw.	S. G. Babson.	
Parkdale.....	Hood River.	1,650	3	45.7	—	75	25	26	28	39	1.41	—	0.67	0.5	7	13	12	5	w.	E. F. Averill.	
Pendleton.....	Umatilla.	1,070	24	52.8	+ 1.1	86	11	27	2	42	1.15	+ 0.19	0.42	7	14d	10d	6	sw.	John F. McManus.		
Pilot Rock.....	do.	1,817	5	51.04	—	84	11	27d	2	50d	1.31	—	0.59	0	7	14	8	4	sw.	E. Coalman.	
Pompeii.....	Clackamas.	3,879	18	38.8	0.0	66	10	11	1	29	0.52	—	0.86	1.0	10	8	5	17	n.	U. S. Weather Bureau.	
Portland.....	Multnomah.	57	43	51.0	- 0.2	76	20	36	28	30	2.94	—	0.11	0.66	0	15	11	6	13	s.	John D. Loucks.
Port Orford.....	Curry.	80	8	47.8	—	70	24	34	29	27	7.66	—	1.85	0	15	11	6	13	w.	A. M. F. Kirchheimer.	
Prairie City.....	Grant.	3,425	2	49.7	—	76	11†	21	7	44	1.80	—	0.67	T.	8	7	19	4	w.	Charles A. Lower.	
Prineville.....	Crook.	2,864	17	—	—	78	24	25	7†	47	2.54	—	0.70	3.5	16	8	16	6	ne.	Mrs. Iva B. Collins.	
Prospect.....	Jackson.	2,800	7	45.7	—	78	24	25	7†	47	2.54	—	0.70	0	5	20	3	7	s.	Mrs. Emma Arbuckle.	
Ramsey.....	Wasco.	1,350	12	47.0	—	74	24	36	7	34	1.03	+ 0.29	2.86	1.11	—	10	14d	0	15*	s.	T. G. Stevens.
Range.....	Grant.	3,500	5	42.24	—	75	11	20*	2†	42*	2.86	—	1.11	—	—	—	—	—	sw.	L. G. Morgan.	
Redmond.....	Crook.	2,990	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.	P. A. Wilson.	
Richland.....	Douglas.	715	—	50.8	—	80	23	29	22	40	2.29	—	0								

TABLE 2.—*Daily precipitation for April, 1913. District No. 12, Columbia Valley.*

Stations.	Watershed.	Day of month.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	
<i>Montana.</i>																																	
Anaconda	Missoula	*	.63	T.	T.	T.																											1.25
Butte	do	.40	.24	T.	T.	T.																										1.41	
Columbia Falls	Flathead																															1.30	
Como	Bitter Root																															1.03	
Dayton	Flathead																															0.80	
Deer Lodge	Missoula	.25	.26																													1.03	
East Anaconda	do	*	.46	T.	T.	T.																										1.03	
Fortine	Kootenai																															0.46	
Hamilton	Bitter Root	.26																														1.09	
Hat Creek	Missoula	.45	.13																													1.53	
Hangan	do	T.																														1.03	
Heron	Columbia																															1.14	
Kalispell	Flathead	T.																														0.86	
Libby	Kootenai																															0.21	
Missoula	do	.10	.12																													1.53	
Ovando	Missoula	.30	.20																													1.68	
Philipsburg	do																															1.90	
Plains	Columbia																															0.43	
Pleasant Valley	Kootenai																															1.55	
Polson	Flathead																															0.40	
St. Ignatius	do																															1.06	
Saltse	Missoula																															0.93	
Stevensville	Bitter Root	.07																														1.33	
Thompson Falls	Columbia																															0.73	
Trout Creek	do																															1.29	
Willow Glen Stock Farm.	Missoula	.48																														0.48	
<i>Wyoming.</i>																																	
Afton	Snake	.07	.23																													0.55	
Alta	do	.04	.41	.12																												1.55	
Bechler River		.40	.55																													2.04	
Bedford	do	.05	.55	.02																												1.21	
Moran	do		.06	.03																												0.41	
Snake River	do	.05	.20	.20	.65	T.	T.																								5.19		
<i>Nevada.</i>																																	
San Jacinto	Snake		T.																													1.25	
<i>Utah.</i>																																	
Standrod	Raft	.01	.10																													0.86	
<i>Idaho.</i>																																	
Albion	Snake	.10	T.																													0.62	
Almo	do	.20																														0.58	
American Falls	do	.08																														T. 0.30	
Arrowrock	Boise	T.	.01																													0.45	
Blackfoot	Blackfoot	.04	.08	T.	T.	T.																										0.49	
Blackfoot Dam	do	.35	.20																													0.91	
Bogus Creek	Payette	.36	.07	T.	.21																										1.48		
Boise	Boise	.22	T.	.01	T.																										0.95		
Bonners Ferry	Kootenai	.23																														0.00	
Boulder Mine	Boise	.23																														1.29	
Buhl	do	.04	T.	.03	.07																										0.62		
Caldwell	Boise	.06																														1.11	
Caldwell Experiment Station	do	.08																														0.65	
Cambridge	Weiser	.42																														1.77	
Cedar Creek Dam	Snake	.34	.01																													1.54	
Chesterfield	Port Neuf	T.	T.																													0.15	
Clarks Fork	Pend d'Oreille																															1.38	
Clyde	Lost River Region																																
Council	Weiser	.35	T.	.20	.45																											1.80	
Culdesac	Clearwater	.25																														1.80	
Deary	do																															1.68	
Dent	do																															2.05	
Driggs	Snake	.10																														0.75	
Emmett	Payette	.02																														0.45	
Forney	Salmon																															0.45	
Garnet	Snake																															0.60	
Glenns Ferry	do																															0.40	
Gooding	Big Wood	.03																														0.47	
Grand Forks	St. Joe	.03																														0.54	
Grandview	Snake																																
Grimes Pass	Boise	.36																														1.06	
Guffey	Snake	.10	.09																													0.35	
Hailey	Big Wood	.10	.05	.01	T.	.22	.18																								0.89		
Hollister	Snake	.08	.05																													0.43	
Hotspring	Brunneau																																
Idaho City	Boise																																
Idaho Falls	do																																
Indian Cove	do																																

TABLE 2.—*Daily precipitation for April, 1913. District No. 12—Continued.*

TABLE 2.—*Daily precipitation for April, 1913. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
<i>Washington—Contd.</i>																																	
Kennewick	Columbia			.02	.28																												T. 0.40
Kent	Puget Sound			.20	.45	.02																										1.05	
Kettle Falls	Columbia	.05	.40																													0.72	
Kiona	Yakima			.10	.26																											0.39	
Kosmos	Columbia			.74	.34	.07	.06	T.																							2.43		
La Center	do	.12	.28	.40	.22			.27																							2.06		
La Crosse	Palouse			.06	.21	T.																									0.58		
Lake Clealum	Yakima			.24	T.	T.																									0.38		
Lake Kachess	do			.27	T.	.10																									0.79		
Lake Keechelus	do			.28	.17	.15																									1.83		
Lakeside	Columbia			.26	.31																										0.67		
Laurel	do			.11	1.08	.34		.09	.22																					1.89			
Lone Tree	Coast	.06	.37	.42	.15	.27	.10	T.																							0.84		
Longmire Springs	Puget Sound			.15	.40	T.																									2.71		
Lost Creek	Columbia			.02	.02																										0.65		
McConihe	do	T.	T.	.01	T.																										0.09		
McCumbers Ranch	do			1.20	.45			.20																						1.90			
Moses Lake	do	T.	.03	T.																											0.03		
Mottinger	do			.14																											0.50		
Mount Pleasant	Coast			T.	.02																										0.97		
Moxee	Yakima			.40	.05	.03	T.																								0.51		
Newport	Pend Oreille			.63	.01																										1.33		
North Head	Coast	.03	.16	.34	.18		.44	.12																						2.33			
North Sundale	Columbia			.20	.02																										0.68		
Northport	do	.06	.29	.01																											0.64		
North Yakima	Yakima			.41	.08																										0.51		
Odessa	Columbia	.04	.36																												0.50		
Olga	Puget Sound			T.	.31	.21																									1.95		
Olympia	do	.08	.39	.12	.22	.09	.05																								2.12		
Omak	Okanogan			.03																												0.09	
Oroville	do	.02	.40																													1.02	
Peola	Snake	.07	T.	.08	.14	T.																									1.86		
Pomeroy	do			T.	.02																											0.09	
Port Crescent	Coast			.04	.02	.03	.01	T.	T.																						0.98		
Port Townsend	Puget Sound			.10	T.	.03																									0.84		
Pullman	Palouse			.37	.04																										1.50		
Quets River	Coast	T.	T.	.34	.25	.57	.26	.02	.03	.02																			4.95				
Quinault	do			.60	.75	.15	.10	.04	.04																				6.52				
Reardan	Spokane																															0.71	
Republic	Kettle			.05	.33																											0.87	
Rex Creek	Columbia			.22	.15																											0.67	
Ritzville	do			.41	.08																												
Robertsburg	do																																
Rock Lake	Palouse																																
Rosalia	do																															1.01	
Russells Ranch	Yakima																																
Seattle	Puget Sound	T.	.45	.24		T.	T.																								0.83		
Sedro Woolley	do	.02	.03	.06	.31																										1.36		
Sixprong	Columbia			.25	.02																										0.73		
Skagit Power Dam	Puget Sound	.15	.14	.35	.32																										2.46		
Snohomish	do			.39																											0.73		
Snoqualmie Falls	do	.02	.15	.35	.09	.01																									1.41		
Snoqualmie Pass	Yakima			.20	.17																											0.62	
Snyders Ranch	Columbia			.21	.40	.41	.38	.38	.15																					4.32			
South Bend	Coast			.21	.40	.41	.38	.38	.15																					0.80			
Spokane	do	T.	.43	.08	T.																										0.65		
State University	Puget Sound																															0.67	
Stokes Ranch	Columbia																															1.42	
Summer	Puget Sound	.05	.16	.31	.05	.01	.06	T.																							0.23		
Sunnyside	Yakima			.09	.06																											1.29	
Tacoma	Puget Sound	.03	.02	.43	.15	.10	.02	T.	.15	.13	.02	.04	T.																	0.86			
Tatoosh Island	Coast	.06	.12	.30	.15	.13	T.	T.	.15	.13	.02	.04	T.																	3.39			
Tieton	Yakima			.74	.10			.02																						0.86			
Touchet	Columbia			.17	.04		T.																								0.42		
Touchet Ridge	do																															1.18	
Trinidad	do			.08																												0.20	
Vancouver	do			.10																													

TABLE 2.—*Daily precipitation for April, 1913. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total														
Oregon—Continued.																																														
Brogan.	Malheur.																																													
Buena Vista.	Snake.																																													
Burns.	SE. drainage.	.36	.02	T.					T.																																					
Burns Mill.	do.	.40	.10																																											
Butte Falls.	Rogue.	.12	.06	.05		.45		.03	.07																																					
California Gulch.	Umatilla.																																													
Cascade Locks.	Columbia.																																													
Cascadia.	Willamette.	.02	.53	.38	.44	1.17	.20	.17	.41																																					
Cazadero.	do.	.31	.22	.48	.70	.38	.17	.32																																						
Christmas Lake.	SE. drainage.	.46	.08	T.		.04			.08																																					
Clear Lake.	Willamette.																																													
Cliff.	SE. drainage.	.22	.08			.06			.11																																					
Columbia Mine.	Snake.	.16	.46																																											
Condon.	John Day.																																													
Coquille River.	Coast.	.96	.11	2.34	.87	.17			.21																																					
Lighthouse.																																														
Cornucopia.	Snake.	.64	T.	.23	.47																																									
Corvallis.	Willamette.																																													
Cracker Creek.	Snake.	T.	T.	.05	T.	T.	T.	.09	T.																																					
Crescent.	Deschutes.	.35	T.	.04	.16	.13	T.	T.	.09	T.																																				
Dayville.	John Day.		T.	.26	.02		.13																																							
Deadwood.	Coast.	T.	.11	.55	1.59	1.52	.22	.48	.15																																					
Diamond.	SE. drainage.	.10	.02																																											
Doraville.	Columbia.																																													
Drain.	Umpqua.																																													
Dufur.	Columbia.																																													
Echo.	Umatilla.																																													
Ella.	Columbia.																																													
Embody.	SE. drainage.	.21	T.	T.	.04	.30		.23																																						
Eugene.	Willamette.	.07	.16	.29	.52	.14	.03	.08																																						
Fairview.	Coast.																																													
Falls City.	Willamette.																																													
Fin Glen.	Coast.	.48	1.21	1.03	1.38	.14	.12	.08																																						
Florence.	do.	.27	.65	1.63	.75	.10	.51	.05																																						
Follyfarm.	Malheur.																																													
Forest Grove.	Willamette.	.05	.11	.40	.50	.05	.35	.21																																						
Fort Rock.	SE. drainage.	.25	.05	T.	T.	.06	T.																																							
Galice.	Rogue.		.17	1.13	1.23	1.40		.03																																						
Gardiner.	Umpqua.	.26	.47	2.33	1.03		.54	.15																																						
Gibbon.	Umatilla.																																													
Glenco.	Columbia.																																													
Glendale.	Umpqua.																																													
Glenora.	Coast.	.23	.30	.35	.25	.30	.15																																							
Gold Beach.	Rogue.	.70	.20	1.80	1.00	.30	.20	.10																																						
Golden Falls.	Coast.	.35	30.1	39.2	6.03	.11	.46	.13																																						
Grants Pass.	Rogue.	.03	.07	.27	.58	T.																																								
Grass Valley.	John Day.																																													
Greenhorn.	Snake.	.22	.01	.32	.13	.01		.02																																						
Gumboot.	do.	.26	.32	.89																																										
Gurdane.	Columbia.																																													
Happy Home.	Umpqua.	.04	.70	18.3	10.1	1.68	.40	.18	.05																																					
Harbor.	Coast.	.70	.48	2.85	1.70	.20	.20	.60																																						
Hay Creek.	Deschutes.	.07	.39			.09	.03	T.																																						
Hazeldell.	Willamette.	.50	.15	.10	.63	.20	.22	.15	.52																																					
Headworks.	do.	.07	.03	20.1	.04	.88	.12	.15	.52																																					
Heppner.	Columbia.	.01	.15	.11	T.	.07																																								
Hermiston.	Umatilla.																																													
Hilgard.	Grande Ronde.																																													
Hillcrest Orchard.	Rogue.																																													
Hollywood Orchard.	do.																																													
Hood River.	Columbia.																																													
No. 2.	do.		.04	.72	.19				.08	.18																																				
No. 3.	do.																																													
No. 4.	do.					</																																								

TABLE 2.—*Daily precipitation for April, 1913. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																													Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
<i>Oregon—Continued.</i>																																	
Persist	Rogue		.15	.35	.75	.15	.30	.10				T.	.42	.60		.46		.28	.09		T.				T.	.15	.20				3.45		
Pilot Rock	Umatilla		.30	1.10	.60	.50	.50			T.	.03																					1.31	
Pompeii	Columbia																																5.02
Portland	Willamette	.26	.37	.62	.17	.01	.44	.01																								2.94	
Port Orford	Coast		.58	1.16	1.84	1.85		.12	.16			.11	.87	.18							T.	.09										7.66	
Post	Deschutes	.23	.46	T.		.03			T.																								1.24
Power House	Columbia																																
Prairie City	John Day	.18		T.		T.	T.		T.																								1.80
Prineville	Deschutes																																
Prospect	Rogue	.21	.06	.12	.05	.70		.02	.25																							2.54	
Rager Creek	Deschutes	.28	.13	.02	T.	.05			.22																							1.37	
Ramsey	Columbia																																1.03
Range	John Day	.15																															2.86
Ray Creek	Columbia																																1.77
Redmond	Deschutes																																
Reston	Umpqua	.35	.13	.73	1.53	.05	.14	.05																								4.39	
Richland	Snake																																
Riddle	Umpqua	.04	.02	.60	.59	T.	.11	T.																								2.29	
Rio Térmoso	Deschutes	.23	.43																														1.69
Riverville	do	.23	.14																														0.75
Riverside	Malheur	.25																															1.05
Roseburg	Umpqua	.05	.06	.02	.34	.32		.09																								2.05	
Rosland	Deschutes	.25	.15	T.	.10	.12		.10																								1.07	
Salem	Willamette	.01	.10	.59	.44	.08	.20	.02																							2.24		
Seneca	SE. drainage		.28	.06																												2.66	
Silver Lake	do	.30	T.	.15																												0.90	
Siskiyou	Rogue			.12	.13	.50																										2.67	
Sisters	Deschutes	.29	.05	.06	.08	.01		.16																								0.80	
Sparta	Snake	.10		T.																													1.11
Stafford	Willamette	.28	.27	.60	.51	.05	.41	.07																							4.46		
Starkey	Grande Ronde	.08																															1.99
Summit	Willamette	.03	.38	.56	.61	.26	.33	.11																							4.09		
Summit Prairie	Deschutes																																
Susanville	John Day	.15		.10	.05	.03																										2.49	
Talent	Rogue	.27		.01	.35		.02	.08																								2.43	
Tamarack	John Day			.15	.12		.10																									1.44	
The Dalles	Columbia		.24	.20	T.	.23																										0.69	
Tillamook	Coast																																
Toledo	do		.70	1.40	.60		.50																									6.15	
Trail	Rogue	.18	.11	.04	.35		.19	.07																								3.46	
Umatilla	Columbia		T.	.29																													0.68
Union	Grande Ronde	.04																															1.44
Vale	Malheur	.07																															0.46
Valley Falls	SE. drainage		T.	T.	T.																											0.34	
Van	Malheur																																
Vida	Willamette	.15	.30	.68	1.19	.40	.20	.16	.27																						5.21		
Vistillas	Pitt																																
Waldo	Rogue	.10	.15	T.	.55	1.00																										4.35	
Wallace Orchard	Willamette		.03	.31	.45	.45		.32	.03																						3.07		
Walloupa	Grande Ronde	.25																															2.00
Wallowa	do	.23	.01	T.	.18																											1.52	
Wamic	Deschutes																																
Warmspring	do																																
Wasco	Columbia																																0.55
Welches	do																																4.77
Weston	Walla Walla																																1.79
Williams	Rogue	.18	.06	.10	.05																											2.14	
Yonna	Int. drainage	.16	.18																														1.17

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for April, 1913. District No. 12, Columbia Valley.

Date.	Montana.				Afton, Wyo.	Idaho.														Vernon.		Wallace.						
	KalisPELL.		Missoula.			Boise.		Bonners Ferry.		Hotspring.		Lewiston.		Mackay.		New Meadows.		Pocatello.		Salmon.		Shoshone.		Vernon.				
	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1....	44	28	41	32	50	38	49	37	46	20	70	38	53	36	53	31	38	30	63	36	55	35	52	35	55	34	44	30
2....	47	25	46	26	52	27	48	31	50	21	50	30	57	31	50	29	42	16	46	33	50	29	48	30	42	33	50	21
3....	45	24	48	25	52	24	52	31	46	20	60	29	59	34	49	12	42	11	47	30	52	28	52	25	41	24	47	24
4....	46	26	50	30	47	26	59	43	46	29	70	41	63	41	56	24	38	33	57	38	64	32	50	29	50	29	46	29
5....	45	32	56	33	37	32	55	41	45	32	69	44	54	40	50	18	39	33	62	37	63	33	62	42	61	34	42	36
6....	47	30	50	28	52	24	50	32	46	29	60	26	54	35	50	20	38	20	46	33	55	27	50	30	53	30	43	32
7....	47	25	52	22	46	19	55	30	50	25	62	24	60	32	45	22	48	19	50	26	58	22	47	21	52	24	47	24
8....	54	26	57	22	47	15	58	40	45	27	66	33	63	39	54	20	46	24	51	27	60	19	59	25	49	22	58	26
9....	57	27	60	24	45	15	62	34	62	22	68	33	68	38	55	23	41	26	55	28	65	19	62	27	52	22	60	28
10....	64	30	69	32	55	15	69	51	72	34	60	33	75	42	58	27	52	24	60	30	68	23	67	33	56	24	66	32
11....	70	32	76	29	55	19	76	44	74	30	80	42	83	43	60	25	60	20	68	35	76	24	75	37	63	27	70	32
12....	75	32	80	34	63	20	78	64	72	31	82	50	74	46	65	25	66	25	71	39	81	24	78	40	70	30	72	36
13....	74	34	77	34	.....	23	79	67	70	34	82	52	72	44	68	26	48	30	73	38	78	28	76	42	70	30	68	36
14....	72	34	79	34	.....	24	71	47	70	32	80	41	70	41	69	28	65	32	74	43	80	28	77	47	72	34	69	32
15....	55	38	49	37	59	32	52	39	49	33	75	44	54	45	70	25	48	36	56	37	72	41	61	33	54	32	59	34
16....	52	34	62	40	.....	21	63	38	50	35	66	30	67	40	68	27	64	33	63	30	69	42	58	30	59	26	57	36
17....	61	29	68	28	57	27	70	39	63	20	76	44	76	46	69	24	66	27	72	34	76	24	75	34	69	31	65	31
18....	72	32	72	30	56	31	69	46	72	29	63	45	78	39	67	37	62	28	57	42	77	29	61	47	66	37	71	33
19....	63	38	49	45	55	30	56	41	54	38	72	37	59	45	47	34	46	34	51	27	62	44	53	37	44	33	44	37
20....	59	39	66	32	64	28	70	37	62	35	78	45	75	40	53	40	62	29	67	34	70	26	68	30	60	29	67	34
Mns..	55.3	30.5	58.4	31.8	55.8	26.1	60.9	40.3	55.9	29.7	68.5	36.9	63.9	39.8	58.0	28.5	50.2	27.7	59.7	34.9	65.2	29.6	61.9	33.5	57.6	29.6	55.5	31.3

Date.	Washington														Odessa.		Port Crescent.		Seattle.		Sixprong.		Spokane.		Tacoma.		Tatoosh Island.	
	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Sixprong.		Spokane.		Tacoma.		Tatoosh Island.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	58	29	50	30	55	27	60	30	57	34	50	38	60	36	53	31	47	28	52	35	58	35	51	32	52	34	51	37
2....	57	30	56	32	57	21	59	32	58	31	46	42	61	27	55	27	49	31	52	35	60	36	53	31	54	34	49	38
3....	56	37	54	43	50	25	57	34	59	33	49	43	60	34	56	33	47	32	53	42	61	33	51	32	54	41	48	40
4....	49	42	56	44	48	31	57	33	56	34	50	44	55	33	57	37	50	33	53	42	58	40	54	37	51	41	48	42
5....	49	39	52	38	54	36	56	37	55	37	45	40	55	38	52	41	51	36	49	39	54	40	50	36	50	40	45	39
6....	56	36	54	40	54	31	51	34	58	34	47	42	56	29	52	32	48	31	50	38	55	33	50	38	47	38	55	38
7....	49	34	58	48	55	24	54	34	54	32	48	42	59	28	55	27	47	30	53	36	56	31	53	32	54	41	47	41
8....	51	42	58	40	64	29	56	44	63	40	47	43	68	43	59	38	51	35	54	42	65	41	57	35	55	41	48	43
9....	67	41	58	44	65	31	72	35	66	36	53	44	68	32	64	32	55	40	65	44	67	35	62	34	64	42	52	43
10....	65	39	62	44	74	32	76	70	39	64	45	75	43	74	40	53	39	68	46	78	42	70	41	67	44	57	45	55
11....	64	45	68	46	79	31	79	36	77	41	64	47	82	41	80	44	61	42	67	45	75	40	77	42	67	45	59	46
12....	54	45	64	50	80	30	61	36	75	43	49	46	73	44	52	50	44	47	56	48	75	48	54	48	50	44	44	44
13....	55	45	60	44	82	32	60	42	73	46	52	45	72	44	71	42	52	40	52	44	66	41	69	45	52	46	52	43
14....	60	49	60	44	80	32	62	38	76	45	50	42	71	43	66	38	50	38	56	43	64	41	67	44	57	39	53	43
15....	57	41	58	42	55	35	68	38	65	50	51	46	66	47	59	46	51	39	54	44	64	32	41	55	44	49	44	
16....	67	41	60	42	57	34	65	41	58	47	66	30	62	36	53	32	47	31	56	38	60	40	62	44	54	44	44	39
17....	77	39	62	38	70	32	60	43	67	38	62	48	74	36	63	32	44	30	53	36	66	39	70	40	53	44	44	38
18....	59	44	66	40	81	30	63	40	71	40	48	46	76	46	75	43	63	41	66	46	70	50	74	44	62	43	55	46
19....	59	46	60	46	82	31	67	32	67	45	52	47	73	48	65	44	52	42	59	45	68	45	55	42	60	46	52	44
20....	71	39	60	40	69	36	88	32	68	39	56	45	74	39	71</td													

TABLE 3.—*Maximum and minimum temperatures for April, 1913. District No. 12—Continued.*

Date.	Walla Walla, Wash.		Oregon.																		The Dalles.		Vale.	
			Ashland.		Baker.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	55	40	55	40	44	29	60	46	53	41	60	39	57	36	57	38	60	42	61	40	60	39		
2.....	55	32	52	33	44	27	65	57	52	36	63	25	52	36	55	40	54	37	62	41	57	28		
3.....	62	41	55	33	50	27	60	30	57	37	66	32	58	43	55	43	59	40	65	35	58	24		
4.....	62	46	61	41	50	36	57	44	53	45	64	39	53	45	53	43	59	42	57	42	60	38		
5.....	58	41	65	32	50	36	60	30	51	39	63	38	48	37	50	41	50	37	58	41	58	44		
6.....	55	39	52	29	47	30	56	32	54	39	62	34	54	35	55	41	57	37	57	41	61	26		
7.....	61	37	56	29	52	26	61	30	57	34	60	26	55	32	52	37	55	33	60	37	60	22		
8.....	61	45	57	39	53	35	66	38	53	44	67	42	56	42	58	44	63	41	63	42	65	32		
9.....	68	44	72	35	59	29	70	40	55	40	71	31	60	35	70	44	73	38	68	35	70	28		
10.....	78	48	77	35	65	36	72	42	56	39	81	31	71	41	72	46	77	39	74	42	78	25		
11.....	82	63	75	35	71	38	69	40	59	47	85	38	63	42	67	50	74	47	78	45	83	45		
12.....	82	52	53	38	72	47	70	42	52	44	78	41	50	45	55	50	50	44	70	47	82	41		
13.....	66	47	53	35	65	42	69	41	55	41	71	47	57	40	55	44	58	42	66	49	79	46		
14.....	65	46	52	41	64	34	71	42	54	39	68	42	55	31	58	40	52	45	66	44	73	41		
15.....	55	40	55	39	44	35	74	40	59	44	60	43	59	42	58	44	59	43	62	48	68	38		
16.....	62	42	62	36	58	32	70	38	62	42	68	31	69	33	65	42	70	36	67	35	69	32		
17.....	72	42	55	41	66	33	68	33	61	43	74	34	66	39	75	47	72	42	74	45	75	30		
18.....	64	46	54	44	67	39	65	36	57	47	66	40	56	47	57	47	56	43	68	41	72	42		
19.....	64	46	64	36	56	39	69	40	62	50	75	47	64	40	61	46	65	40	70	44	65	43		
20.....	74	39	67	40	62	35	72	45	53	41	77	34	66	38	76	46	77	39	74	40	73	33		
21.....	64	42	60	42	59	36	76	33	56	45	75	46	55	46	58	44	56	38	74	53	70	37		
22.....	53	37	56	33	42	31	65	35	58	38	61	38	54	34	54	39	58	31	60	39	64	36		
23.....	56	36	66	33	51	27	60	31	61	41	61	27	62	31	56	36	69	32	66	34	64	27		
24.....	68	47	76	55	55	35	63	36	70	45	74	41	70	35	67	48	78	40	75	51	73	34		
25.....	78	54	76	41	68	37	66	38	66	46	82	38	60	44	74	47	79	45	81	43	80	35		
26.....	63	48	63	41	68	39	65	33	56	40	89	47	54	39	56	44	54	41	73	49	81	42		
27.....	51	39	51	34	48	30	61	32	54	39	60	44	52	38	52	40	54	37	58	40	76	43		
28.....	55	36	53	31	38	26	58	38	50	34	61	32	48	29	54	36	50	35	60	35	57	26		
29.....	57	33	44	31	40	28	62	40	53	36	60	32	54	33	51	36	54	32	59	51	57	35		
30.....	60	42	48	31	46	30	65	33	53	35	65	41	48	36	56	38	54	36	63	43	56	29		
Mean.....	63.5	43.0	58.9*	36.1	55.1*	33.5	65.5	37.2	56.4	41.0	68.9	37.7	57.5	38.1	59.4	42.7	61.5	39.1	66.3	42.4	68.7	34.7		

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.